

# ALTA VISTA AT ST. JOSEPH'S PARK

(317, 325 Andrews Street & 101-113 Franklin Street & 106 Pleasant Street)

CITY OF ROCHESTER, MONROE COUNTY, NEW YORK STATE

PREPARED FOR:

# ALTA VISTA HOUSING LLC

954 CLIFFORD AVE. ROCHESTER, NY 14621



CITY OF ROCHESTER

LOCATION MAP

NOT TO SCALE

# FINAL SITE PLANS ALTA VISTA AT ST. JOSEPH'S PARK

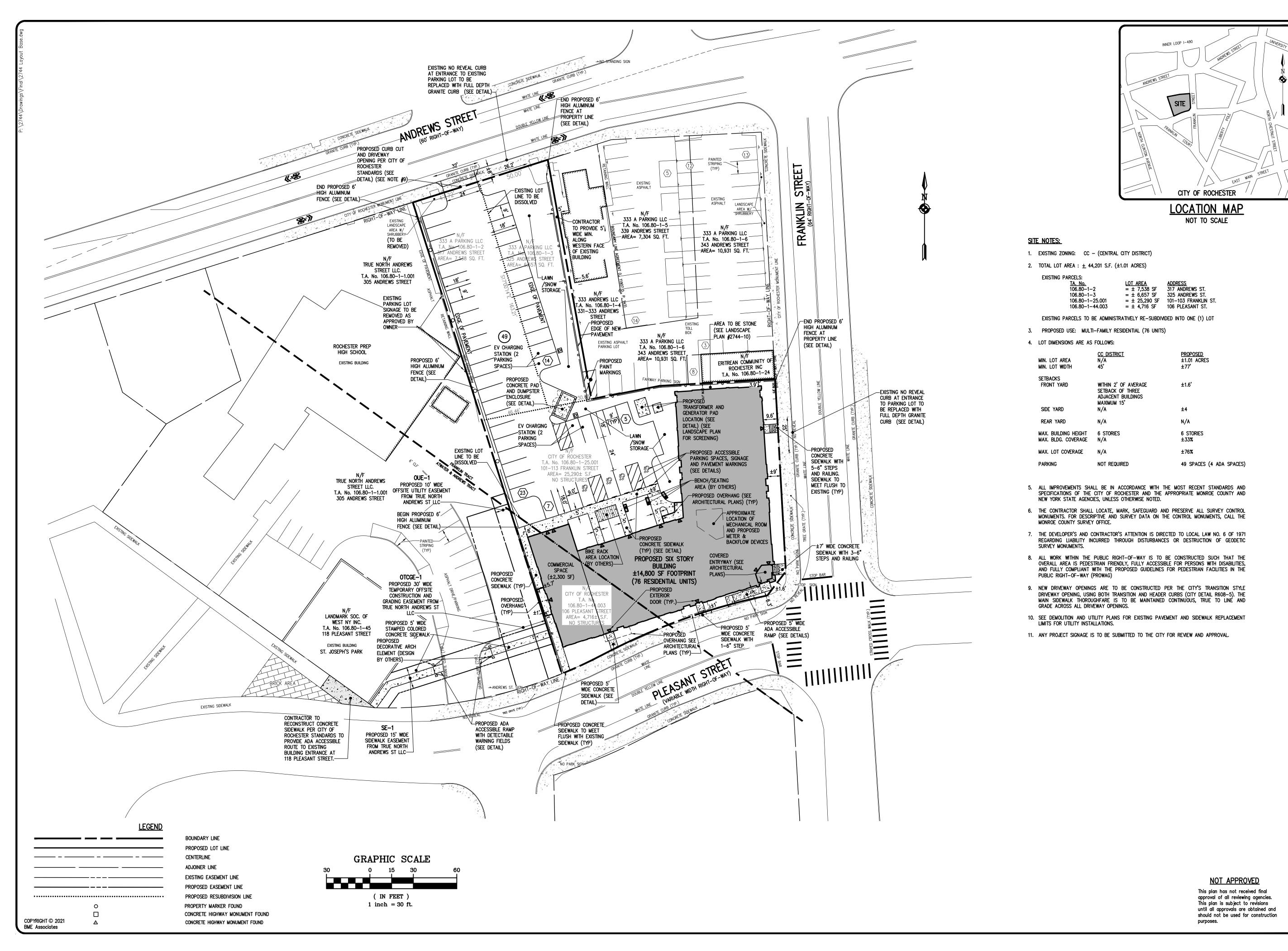
DWG. No.	TITLE
2744-03	COVER SHEET
2744-04	SITE PLAN
2744-05	CONSOLIDATION PLAT (FUTURE SUBMISSION)
2744-06	EXISTING CONDITIONS / DEMOLITION PLAN
2744-07	UTILITY PLAN
2774-08	GRADING PLAN
2274-09	CONSTRUCTION EROSION CONTROL PLAN
2774-10	LANDSCAPE PLAN
2774-11	LIGHTING PLAN
2744-12	DETAIL SHEET (SHEET 1 OF 5)
2744-13	DETAIL SHEET (SHEET 2 OF 5)
2744-14	DETAIL SHEET (SHEET 3 OF 5)
2744-15	DETAIL SHEET (SHEET 4 OF 5)
2744-16	DETAIL SHEET (SHEET 5 OF 5)
2744-17	SIDEWALK DETOUR PLAN

SCALE: 1"=100'

DRAWING NUMBER: 2744\_03 DATED: DECEMBER 07, 2021



10 LIFT BRIDGE LANE EAST PHONE 585-377-736
FAIRPORT, NEW YORK 14450 FAX 585-377-7309



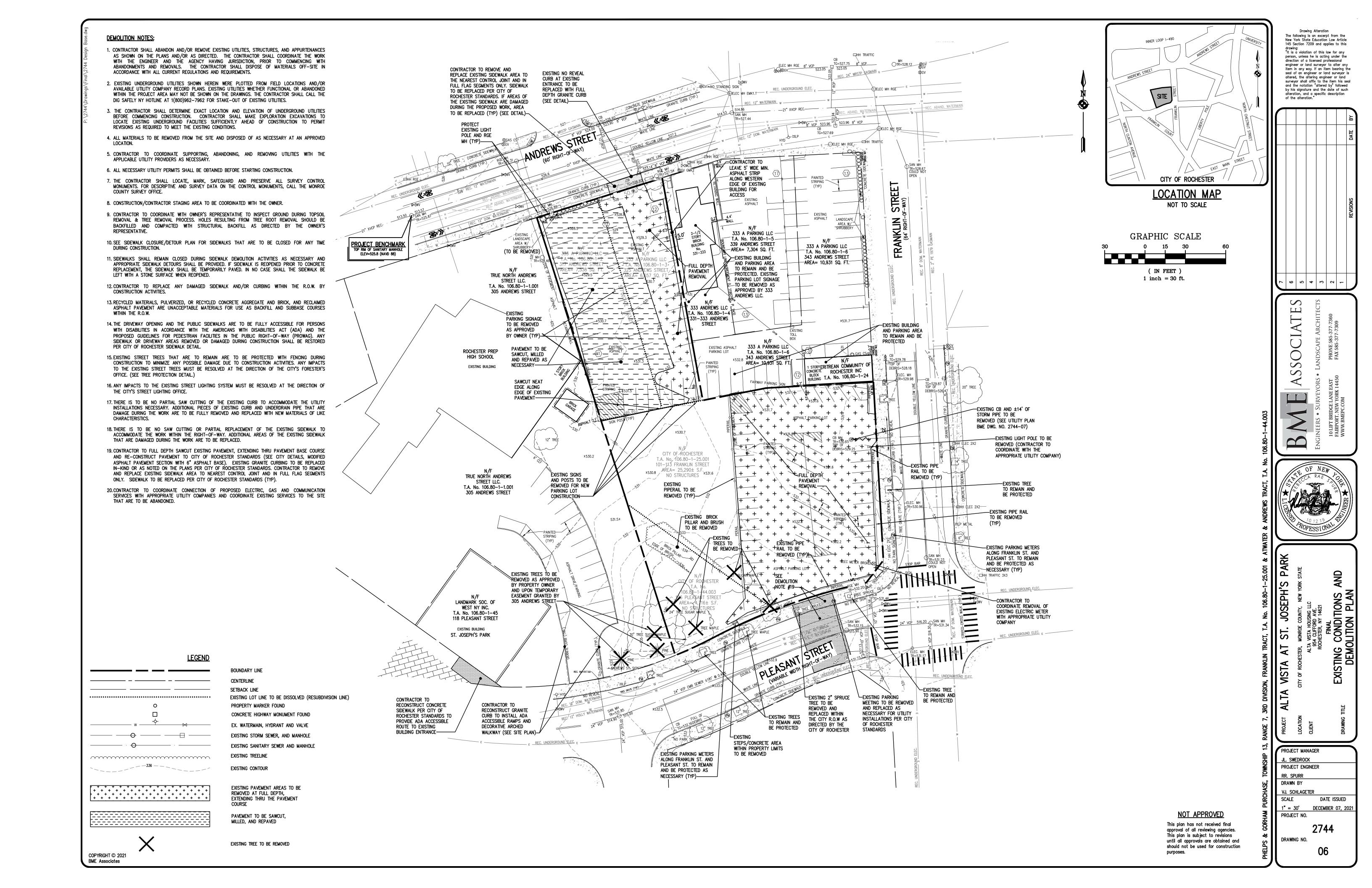
Drawing Alteration The following is an except from the New York State Education Law Article 145 Section 7209 and applies to this

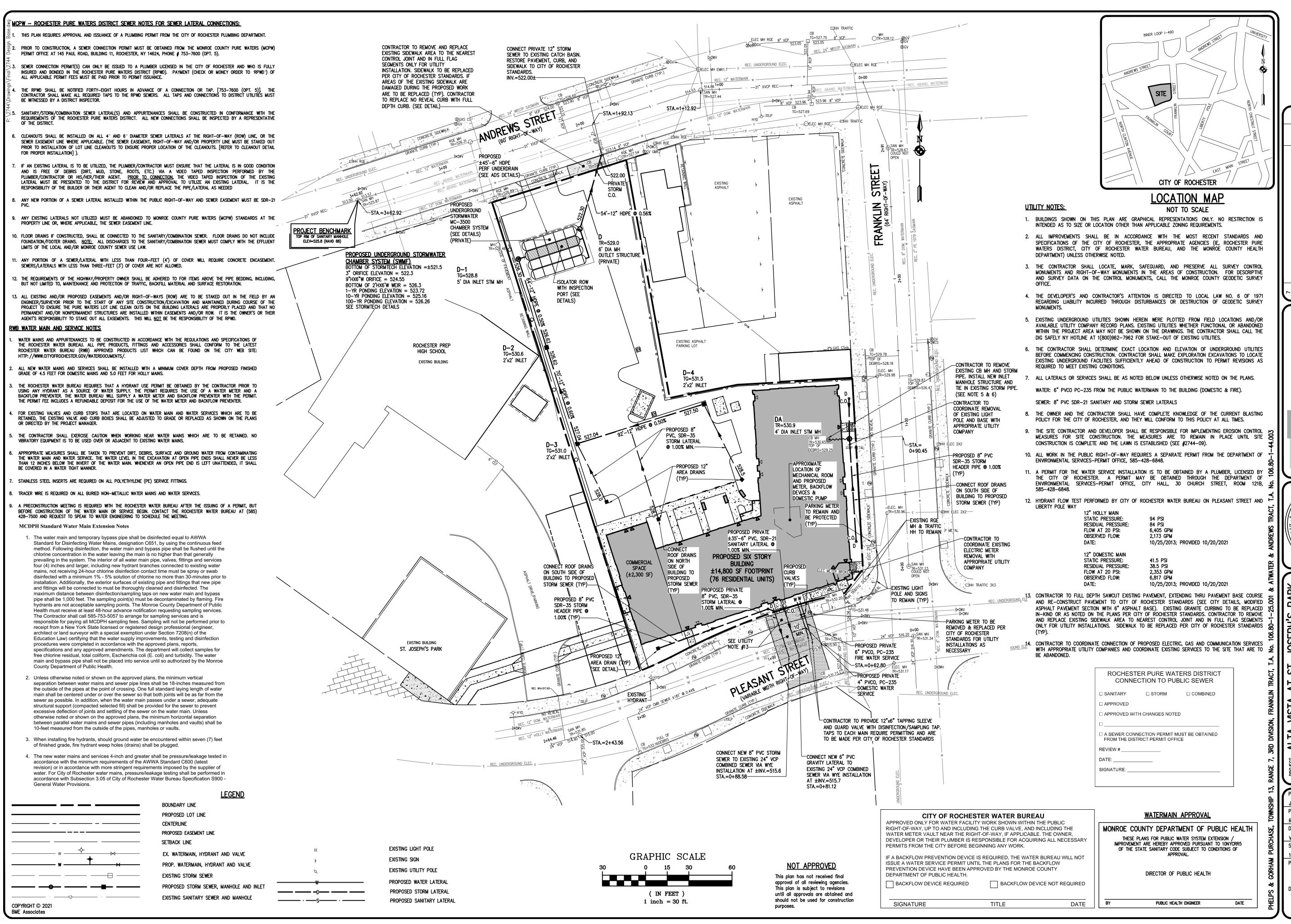
drawing:
"It is a violation of this law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor to alter any item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration."

PARK

PROJECT MANAGER JL. SWEDROCK PROJECT ENGINEER RR. SPURR DRAWN BY VJ. SCHLAGETER SCALE DATE ISSUED DECEMBER 07, 2021

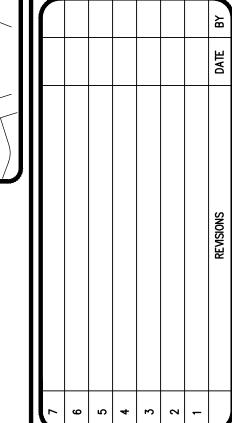
PROJECT NO.



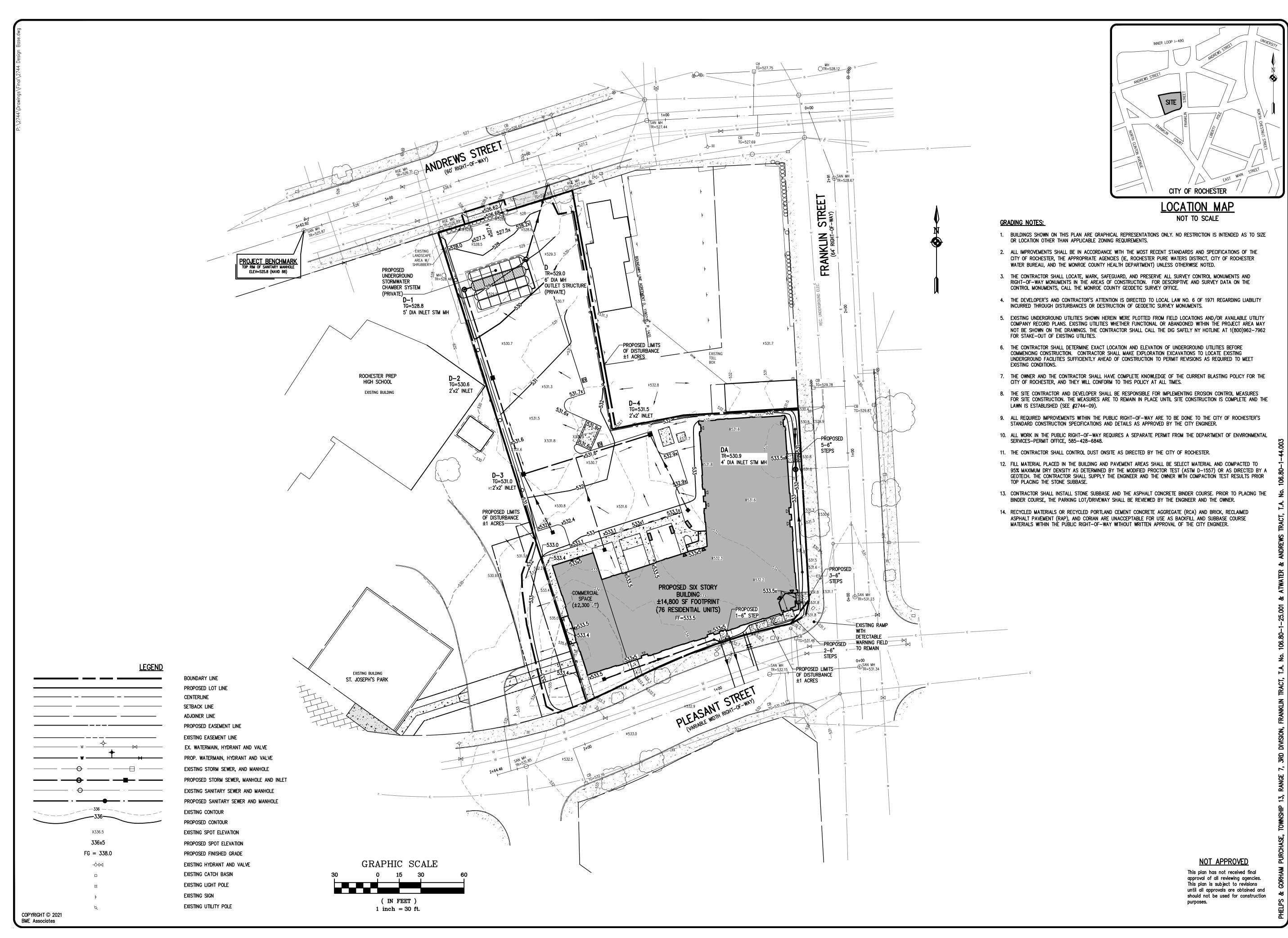


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PROJECT MANAGER JL. SWEDROCK PROJECT ENGINEER RR. SPURR DRAWN BY VJ. SCHLAGETER SCALE DATE ISSUED DECEMBER 07, 202 PROJECT NO.



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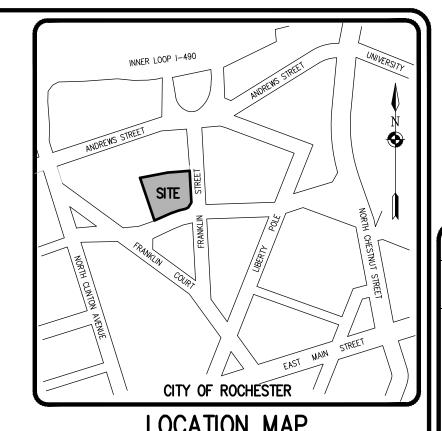
PROJECT MANAGER PROJECT ENGINEER DATE ISSUED

DRAWN BY VJ. SCHLAGETER SCALE

DECEMBER 07, 202

PROJECT NO.

# CONSTRUCTION EROSION CONTROL NOTES: 1. THE CONSTRUCTION ACTIVITIES FOR THIS PROJECT REQUIRE THE PREPARATION OF AN EROSION AND SEDIMENT CONTROL PLAN ONLY. THE PROJECT PLANS CONSIST OF THE GRADING PLAN, THE CONSTRUCTION EROSION CONTROL PLAN AND DETAIL SHEETS, AND THE CITY OF ROCHESTER DESIGN AND CONSTRUCTION SPECIFICATIONS REGARDING STORMWATER 2. THE OWNER IS RESPONSIBLE FOR IMPLEMENTING THE REQUIRED CONSTRUCTION EROSION CONTROL PLAN. THE OWNER'S CONTRACTOR, SUB-CONTRACTOR AND ALL OTHERS ASSOCIATED WITH THE IMPLEMENTATION OF THE PLAN SHALL BE FAMILIAR WITH THE PLAN AND THE CONDITIONS OF THE CITY OF ROCHESTER FOR STORMWATER DISCHARGES FROM 3. THE OWNER'S CONTRACTOR/REPRESENTATIVE SHALL IDENTIFY AT LEAST ONE INDIVIDUAL TO BE TRAINED FROM THEIR COMPANY THAT WILL BE RÉSPONSIBLE FOR IMPLEMENTATION OF THE COSNTRUCTION EROSION CONTROL PLAN. THE OWNER/OPERATOR SHALL ENSURE THAT AT LEAST ONE OF THE TRAINED INDIVIDUALS IS ON SITE ON A DAILY BASIS WHEN SOIL DISTURBANCE ACTIVITIES ARE BEING PERFORMED. 4. FOR DISTURBANCES LESS THAN 5 ACRES. IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN 14 DAYS. FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY GROUNDCOVER, THE DISTURBED AREAS SHALL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL. 5. THE OWNER'S CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT, MAINTENANCE, CLEANING, REPAIR AND REPLACEMENT OF EROSION CONTROL MEASURES DURING SITE CONSTRUCTION. CONSTRUCTION ENTRANCE 6. ALL DISTURBED AREAS TO BE RECLAIMED WITH A MINIMUM OF 6" TOPSOIL. (SEE DETAIL) UTILIZE EXISTING CURB CUT. 7. TEMPORARY SEEDING OF DISTURBED AREAS SHALL BE PROVIDED AS FOLLOWS: THE SURFACE TWO INCHES OF SOIL SHOULD BE LOOSENED BY DISKING, RAKING, OR BACK-BLADING WITH A BULLDOZER. FRANKLIN (64' RIGHT-( IMMEDIATELY FERTILIZE WITH 300 LBS PER ACRE (OR 7 LBS. PER 1000 SQ. FT.) OF 10-10-10 FERTILIZER. IMMEDIATELY SEED WITH THE FOLLOWING MIX: ANNUAL RYEGRASS PROJECT BENCHMAR TOP RIM OF SANITARY MANHOLE ELEV=525.8 (NAVD 88) PERENNIAL RYEGRASS PROPOSED WHITE CLOVER (+ INOCULANT) UNDERGROUND STORMWATER SEED SHOULD HAVE A GERMINATION RATE OF AT LEAST 85 PERCENT AND MINIMAL INERT MATERIAL. CHAMBER SYSTEM (PRIVATF)\_ 8. DISTURBED AREAS SHALL BE STABILIZED USING PERMANENT LAWN SEEDING MIX UPON COMPLETION OF GRADING AND CONSTRUCTION: LBS/ACRE % BY PURITY % GERM PERENNIAL RYE GRASS RED FESCUE KENTUCKY BLUEGRASS -PROPOSED LIMITS SEEDING RATE: 6.0 LBS PER 1,000 SQ FT. OF DISTURBANCE MULCH: STRAW OR WOOD FIBER MULCH USED WITH HYDROSEEDING METHOD, ±1 ACRES AT TWO TONS PER ACRE WITH TACKIFIER STARTING FERTILIZER: 5-10-10 AT 20 LBS PER 1,000 SQ. FT 9. ALL SEEDED AREAS ARE TO BE MONITORED FOR GERMINATION AND EROSION. ERODED AREAS ARE TO BE BACKFILLED, ROCHESTER PREP PROPOSED FILTER FINE GRADED AND RE-SEEDED. AREAS THAT FAIL TO GERMINATE A MINIMUM OF 80% SHALL BE RE-SEEDED. HIGH SCHOOL FABRIC INLET -PROPOSED FILTER FABRIC PROTECTION (TYP) 10. ANY EXCAVATIONS THAT MUST BE DEWATERED SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE BEFORE EXISTING BUILDING (SEE DETAIL)— INLET PROTECTION (TYP) (SEE ENTERING AN ACTIVE DRAINAGE SYSTEM OR DISPERSED TO AN UNDISTURBED AREA. DETAIL) 11. THE OWNER SHALL BE RESPONSIBLE FOR REMOVING EXISTING EROSION CONTROL MEASURES THAT ARE LOCATED WITHIN ESTABLISHED AREAS. MATERIALS ARE TO BE DISPOSED OF PROPERLY. 12. CONTRACTOR TO INSTALL PROPOSED PERIMETER SECURITY FENCE/CONSTRUCTION FENCE AS NECESSARY AND AS DETERMINED IN THE FIELD AROUND THE PERIMETER OF THE SITE. PROPOSED FILTER PROPOSED FABRIC INLET CONSTRUCTION -PROPOSED FILTER FABRIC PROTECTION (TYP) STAGING AREA WITH INLET PROTECTION (TYP) (SEE (SEE DETAIL)-CONCRETE WASHOUT (SEE DETAIL)— PROPOSED LIMITS OF DISTURBANCE ±1 ACRES— PROPOSED SILT PROPOSED SIX STORY FENCE (TYP) (SEE DETAIL)-**BUILDING**53 ±14,800 SF FOOTPRINT (76 RESIDENTIAL UNITS) =PROPOSED/ —WARNING FIELD " —TO REMAIN -PROPOSED LIMITS EXISTING BUILDING OF DISTURBANCE ST. JOSEPH'S PARK ±1 ACRES **LEGEND** PROPOSED LOT LINE CENTERLINE SETBACK LINE ADJOINER LINE EX. WATERMAIN, HYDRANT AND VALVE PROP. WATERMAIN, HYDRANT AND VALVE EXISTING STORM SEWER, AND MANHOLE PROPOSED STORM SEWER, MANHOLE AND INLET EXISTING SANITARY SEWER AND MANHOLE PROPOSED SANITARY SEWER AND MANHOLE EXISTING CONTOUR PROPOSED CONTOUR X336.5 EXISTING SPOT ELEVATION 336x5 PROPOSED SPOT ELEVATION FG = 338.0PROPOSED FINISHED GRADE GRAPHIC SCALE PROPOSED INLET PROTECTION PROPOSED SILT FENCE PROPOSED LIMIT OF DISTURBANCE DRAINAGE FLOW DIRECTION ( IN FEET ) 1 inch = 30 ft.



# SEQUENCE OF CONSTRUCTION STEPS:

- INSTALL AND MAINTAIN PERIMETER SECURITY FENCE, STABILIZED CONSTRUCTION ENTRANCE
- INSTALL PERIMETER SILT FENCE

- STRIP TOPSOIL FROM THE SITE AND REMOVE FROM SITE.
- SAWCUT AND REMOVE EXISTING ASPHALT FROM THE SITE AS REQUIRED. CONTRACTOR TO REMOVE EXISTING STRUCTURES, UTILITIES, FENCE, SIGNAGE, SIDEWALK ETC. (SEE DEMOLITION
- PEDESTRIAN AND VEHICLE ACCESS IS TO BE MAINTAINED TO ADJACENT PROPERTIES (SEE
- COMMENCE GRADING OPERATIONS. INSTALL ADDITIONAL EROSION CONTROL MEASURES. MEASURES ARE TO BE MAINTAINED BY THE CONTRACTOR UNTIL GROUND COVER HAS BEEN ESTABLISHED AND REMOVAL IS APPROVED BY THE CITY/GOVERNING AGENCY. CONTRACTOR TO FINE GRADE, SEED, AND MULCH AREAS DISTURBED AREAS WITHIN 7 DAYS IF NOT WORKED WITHIN 7 DAYS. SEED WITH SEED MIX AS INDICATED, AND PROVIDE MULCH AS
- CONTRACTOR MAY INSTALL UTILITIES AND LATERALS DURING GRADING OPERATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO STABILIZE THE SITE AND VERIFY GRADING ELEVATIONS PRIOR TO UTILITY CONSTRUCTION. THE STORMTECH CHAMBER SYSTEM TO BE INSTALLED PRIOR TO STABILIZATION OF THE SITE. ADDITIONAL EROSION CONTROL MEASURES

# STEP 3: (STABILIZATION & MONITORING)

- COMPLETE INSTALLATION OF UNDERGROUND UTILITIES.
- MAINTAIN SILT FENCE
- AND DRAINAGE CHANNELS FREE OF MUD, DIRT, AND DEBRIS. THE CONTRACTOR WILL CLEAN THESE AREAS AS NECESSARY OR AS REQUIRED BY THE OWNER OR CITY OF ROCHESTER.

# STEP 1: (SITE PREPARATION AND DEMOLITION)

(SEE DETAIL), AND CONSTRUCTION STAGING AREA

# STEP 2: (CONSTRUCTION ACTIVITY)

- PLAN). CONTRACTOR TO PREPARE SITE AS NECESSARY.
- SIDEWALK CLOSURE PLAN).
- SPECIFIED IN THE CONSTRUCTION EROSION CONTROL NOTES.
- SHALL BE PROVIDED AS SHOWN IN THE PLANS, OR AS DIRECTED.

# SEQUENCE OF CONSTRUCTION STEPS:

- SEE CONSTRUCTION EROSION CONTROL NOTES FOR REQUIRED SEED MIXES AND WINTER SITE
- DUST SHALL BE CONTROLLED DURING CONSTRUCTION BY THE CONTRACTOR TO MINIMIZE EFFECT ON THE ADJACENT PROPERTIES. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS NEEDED AND/OR AS DIRECTED BY THE CITY OR OWNER.

Drawing Alteration The following is an excerpt from the New York State Education Law Article

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PROJECT MANAGER PROJECT ENGINEER DRAWN BY

SCALE

DECEMBER 07, 202 PROJECT NO.

DRAWING NO.

**NOT APPROVED** 

This plan has not received final approval of all reviewing agencies. This plan is subject to revisions until all approvals are obtained and should not be used for construction purposes.

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PROP. WATERMAIN, HYDRANT AND VALVE

EXISTING SANITARY SEWER AND MANHOLE

CONCRETE HIGHWAY MONUMENT FOUND

PROPERTY MARKER FOUND

EXISTING CATCH BASIN

EXISTING UTILITY POLE

EXISTING GAS SERVICE

EXISTING LIGHT POLE

EXISTING SIGN

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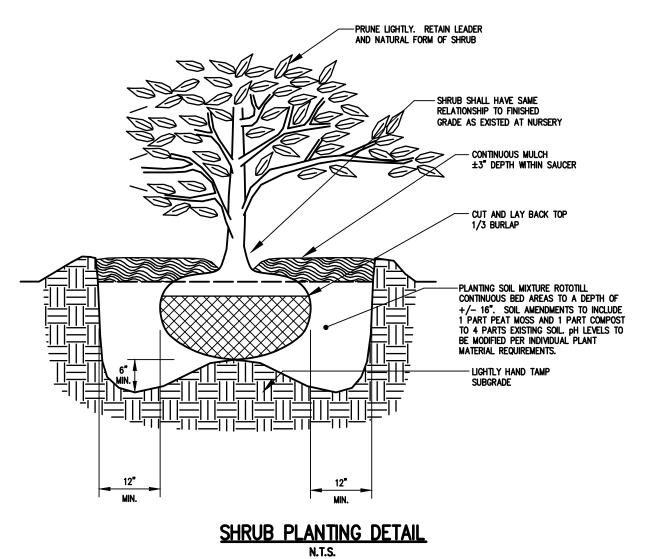
**BME** Associates

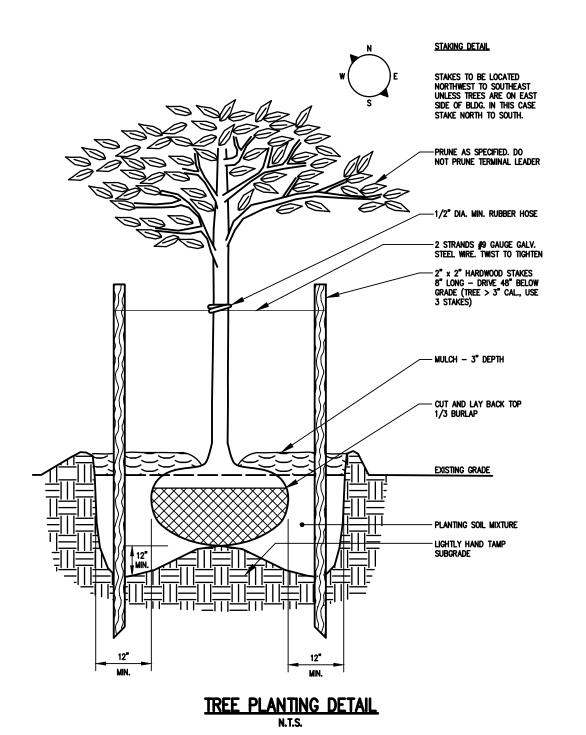
EXISTING HYDRANT AND VALVE

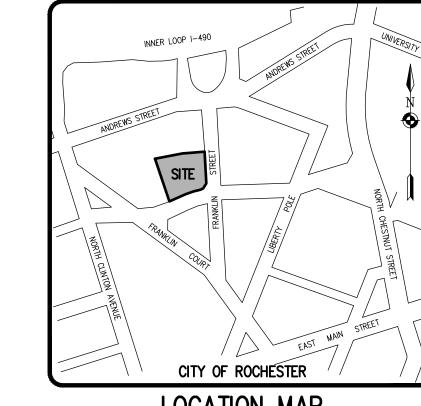
PROPOSED SANITARY SEWER AND MANHOLE

PROPOSED STORM SEWER, MANHOLE AND INLET

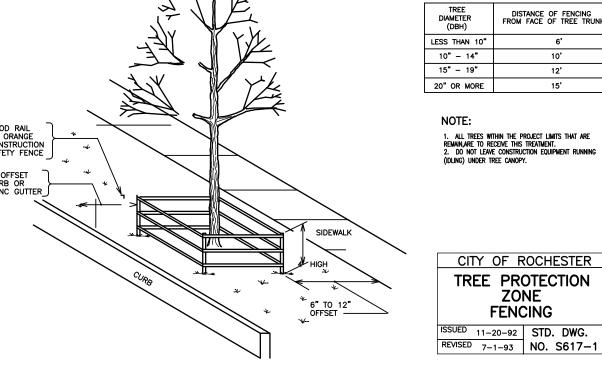
EXISTING STORM SEWER, AND MANHOLE







**LOCATION MAP** 



# LANDSCAPE NOTES:

- 1. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED IN THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION, ANSI Z60.1-2004.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFFS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- 4. ALL TREES SHALL BE LOCATED A MINIMUM DISTANCE OF FIVE FEET (5') FROM THE HORIZONTAL LINE OF UNDERGROUND UTILITIES TO THE PLANT BALL.
- 5. ALL TREES SHALL BE LOCATED A MINIMUM DISTANCE OF TEN FEET (10') FROM THE
- 6. PLANTING SOIL MIXTURE SHALL HAVE A RATIO BY VOLUME OF FOUR PARTS TOPSOIL TO ONE PART PEAT. SOIL AMENDMENTS TO BE MODIFIED PER INDIVIDUAL PLANT MATERIAL REQUIREMENTS.
- 7. STAKE TREES IMMEDIATELY AFTER PLANTING. REFER TO DETAIL.

HORIZONTAL LINE OF OVERHEAD UTILITIES TO THE PLANT BALL.

8. PROVIDE ALL PLANTING BEDS WITH A CONTINUOUS 3" LAYER OF MULCH. MULCH SHALL BE PROVIDED AS FOLLOWS:

FOR BUILDING FOUNDATION PLANTING BEDS, PROVIDE A 3" LAYER OF WASHED COBBLES 1"-3" IN SIZE. PROVIDE WEED BARRIER MATERIAL BETWEEN SOIL AND MULCH LAYER. FOR ALL OTHER LANDSCAPE PLANTING BEDS PROVIDE SHREDDED HARDWOOD MULCH PER DETAILS.

9. SEED ALL AREAS NOT PAVED, PLANTED OR SPECIFIED OTHERWISE WITH LAWN SEED.

A. LAWN SEED MIXTURE SHALL BE PROVIDED AS FOLLOWS: % BY WEIGHT % BY PURITY % GERM 'REPELL', 'CITATION' & 'MORNING STAR' PERENNIAL RYE GRASS 'JAMESTOWN II', 'FORTRESS', 'ENSYLVA' RED FESCUE 'BARON' & 'MIDNIGHT'

SEEDING RATE: 6.0 LBS PER 1,000 SF. MULCH: STRAW AT TWO TONS PER ACRE, OR WOOD FIBER MULCH USED WITH A HYDROSEEDING APPLICATION METHOD, WITH TACKIFIER. STARTING FERTILIZER: 5:10:10 AT 20 LBS PER 1,000 SF.

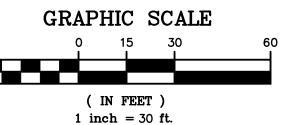
KENTUCKY BLUEGRASS

PLEASE REFER TO BME DRAWING # 2744-09 / CONSTRUCTION EROSION CONTROL PLAN FOR FURTHER SEEDING REQUIREMENTS IE.: TEMPORARY SEEDING AND SPECIALIZED SEED MIXES.

10. PROPOSED PLANT MATERIALS SHALL BE FIELD LOCATED, AND THE CONTRACTOR SHALL PERFORM A ROUGH STAKEOUT OF PLANTINGS FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF PLANT MATERIALS AND SEEDED AREAS UNTIL FINAL ACCEPTANCE. ONCE THE LANDSCAPING IS ACCEPTED BY THE OWNER, THE LANDSCAPE MAINTENANCE IS TO BE PROVIDED BY OWNER/ OWNER REPRESENTATIVE FOR THE (1) ONE YEAR MAINTENANCE GUARANTEE PERIOD.

12. ANY PROPOSED DEVIATION TO THE LANDSCAPING PLAN MUST FIRST BE REVIEWED AND APPROVED BY THE PLANNING BOARD CHAIRMAN AND THE DIRECTOR OF ENGINEERING AND PLANNING PRIOR TO THE INSTALLATION OF THE PROPOSED LANDSCAPING CHANGES.



PROJECT MANAGER PROJECT ENGINEER DRAWN BY SCALE DECEMBER 07, PROJECT NO.

	QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
◡	₩ TR	REES					
$\frac{\overline{X}}{X}$	2	CC	Cercis canadensis 'Rising Sun'	Rising Sun Redbud	2.5" cal	B&B	
<u></u>	4	CK	Cornus Kousa	Kousa Dogwood	2.5" cal	B&B	
	5	CV	Crataegus viridis 'Winter King'	Winter King Hawthorn	2.5" cal	B&B	
	2	GT	Gleditsia triacanthos var. inermis 'Sho	idemaster' Honeylocust	2.5" cal	B&B	
	2	UA	Ulmus americana 'Valley Forge'	American Elm	2.5" cal	B&B	
	2	QR	Quercus rubra	Red Oak	2.5" cal	B&B	
	SH	HRUBS					
	35	CA	Clethra alnifolia 'Hummingbird'	Hummingbird Summersweet	24"	B&B	or cont
	23	IG	llex glabra 'Compacta'	Inkberry	24"	B&B	or cont
	41	TM	Taxus X media 'Densiformis'	Dense Yew	24"	B&B	or cont
$\overline{}$	PE	RENNIALS	/GRASSES				
XX	6	HH	Hemerocallis 'Happy Returns'	Happy Returns Daylily	#1	cont.	spacing @ 24"

Coral Bells

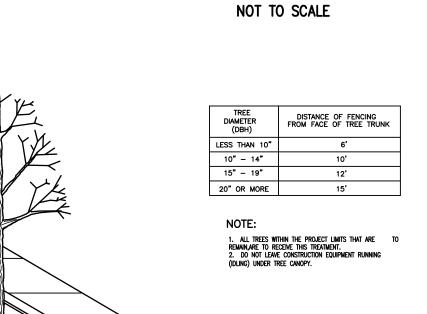
cont. | spacing @ 24"

cont. spacing @ 24"

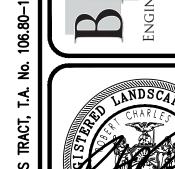
Heuchera 'Southern Comfort'

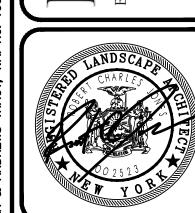
311 SS Schizachyrium scoparium 'Prairie Blues' Little Bluestem

		REQUIRED	PROPOSED
1 TREE PER 40' OF PARCEL PERIMETER: 1,040 LF.		26	12
STREET TREES ≥ 3" CAL. TO REMAIN		-	5
ADDITIONAL OFF SITE TREES		_	5
TOTAL TREES INCLUDED IN PROJECT CAL	CLII ATION		22
TOTAL TREES INCLUDED IN PROJECT CAL	COLATION		22
SHRUBS*		12	99
*(MAY SUBSTITUTE 3 SHRUBS PER TREE)			
TOTAL SHRUBS			99



CITY OF ROCHESTER TREE PROTECTION ISSUED 11-20-92 STD. DWG.



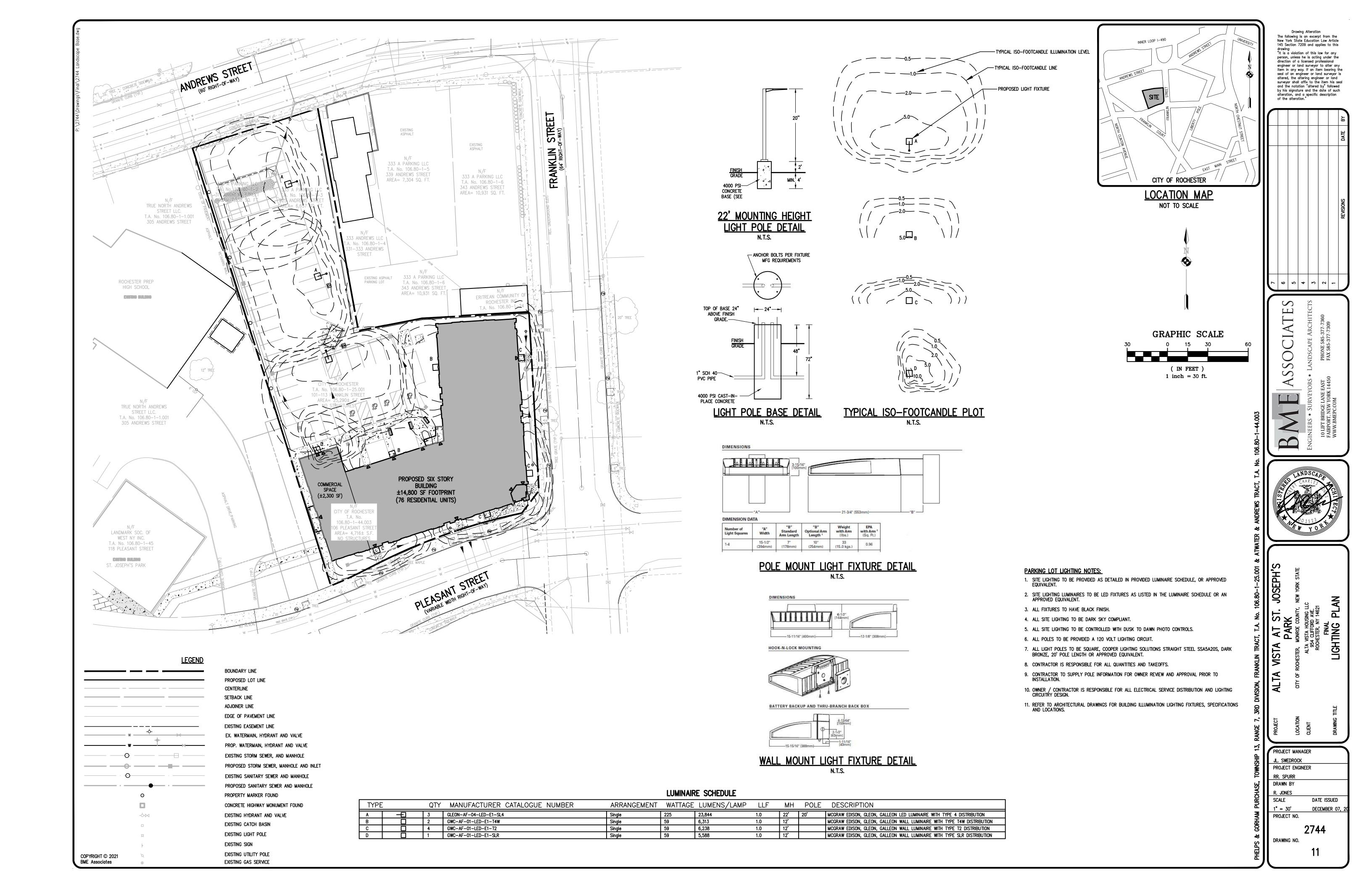


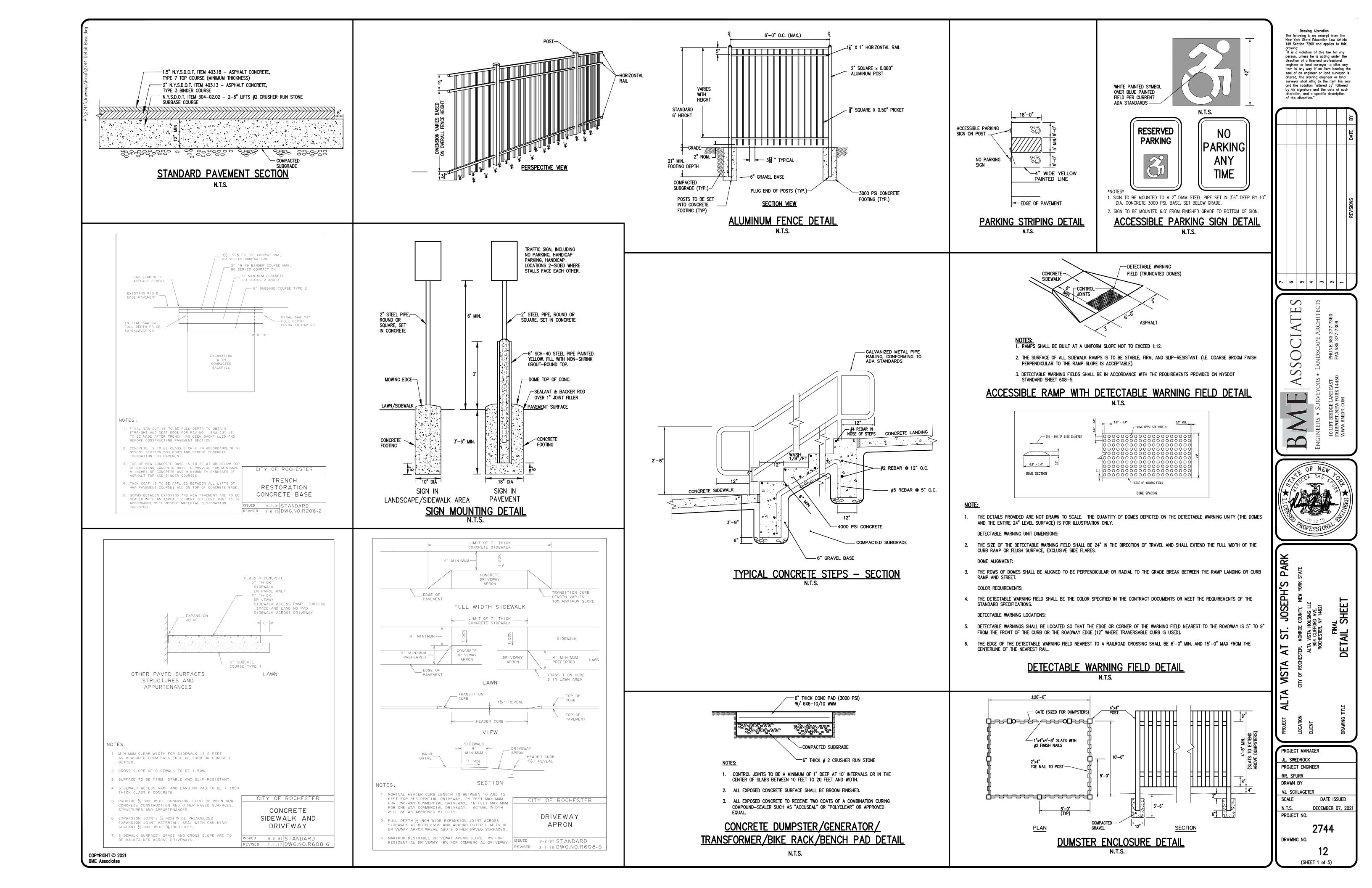
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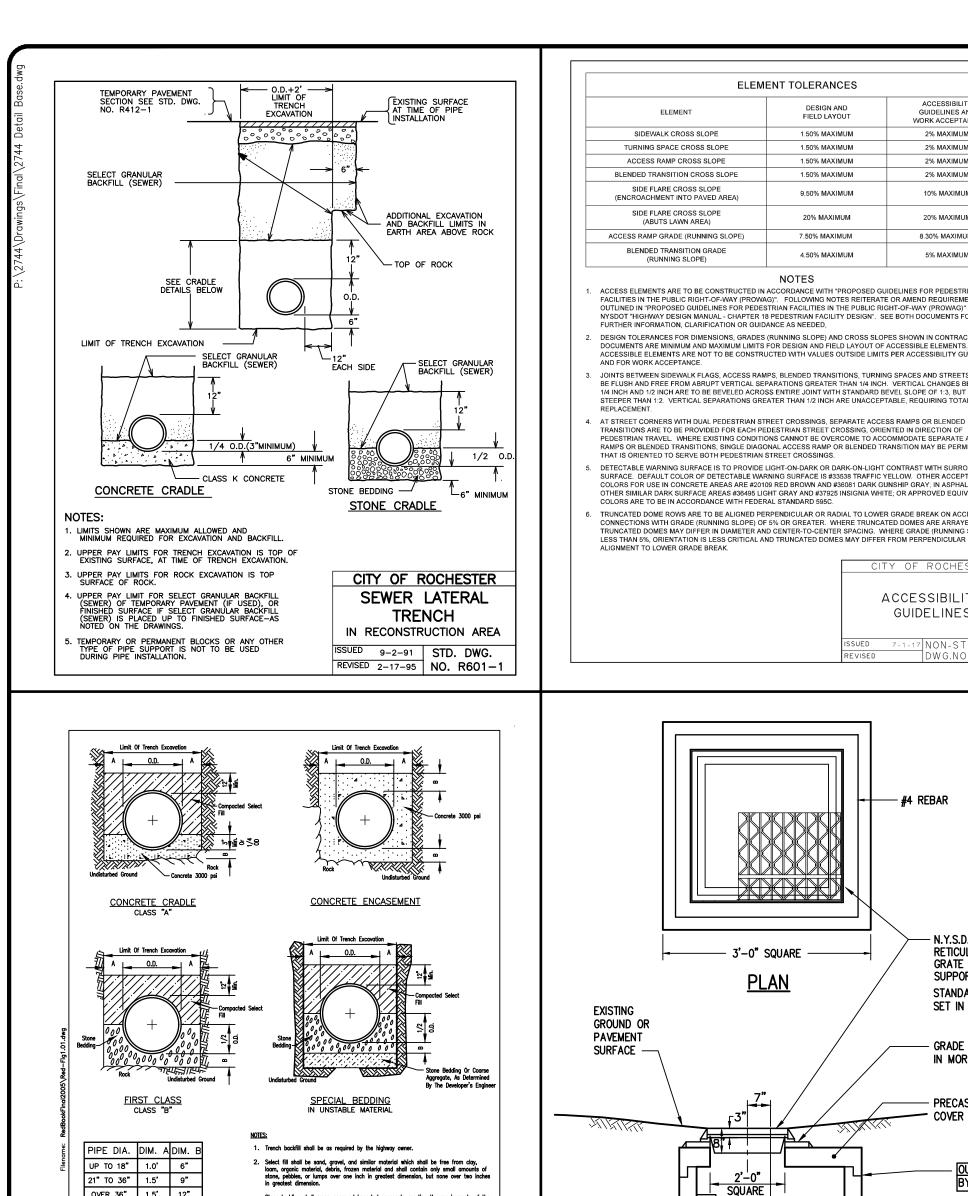
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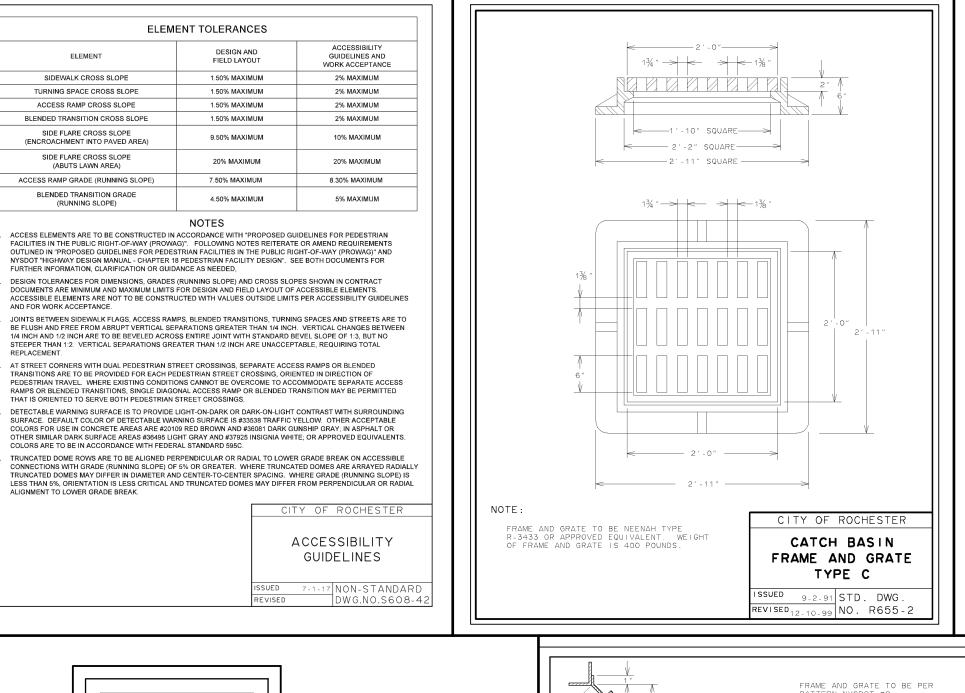
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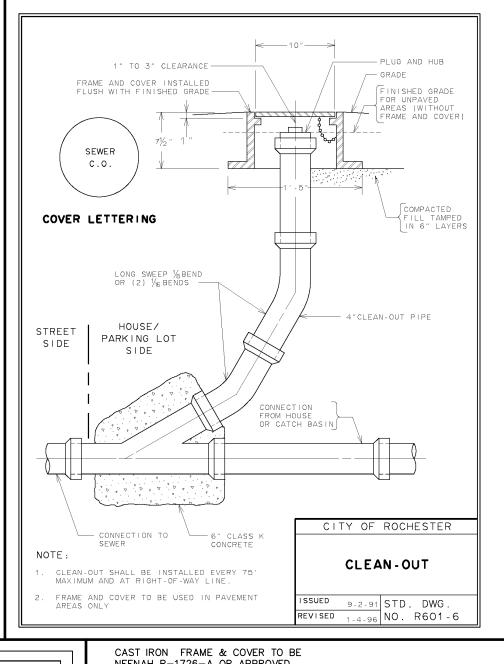
DATE ISSUED

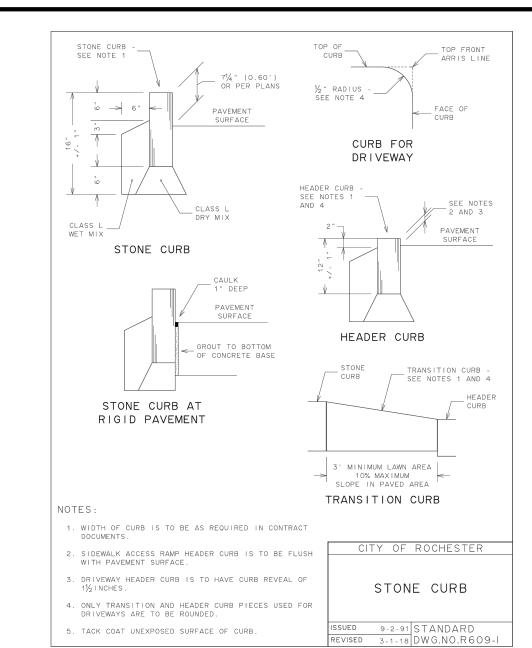


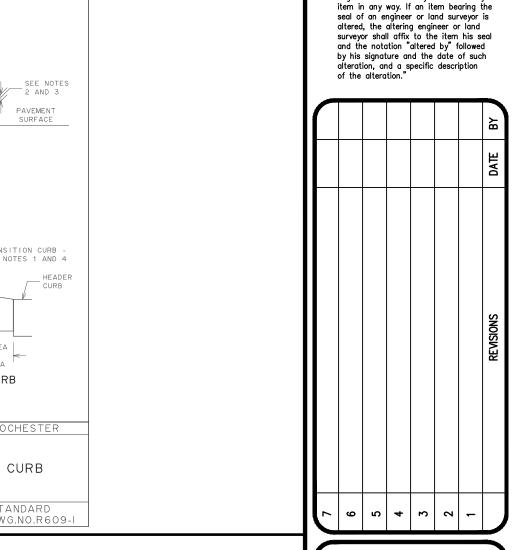












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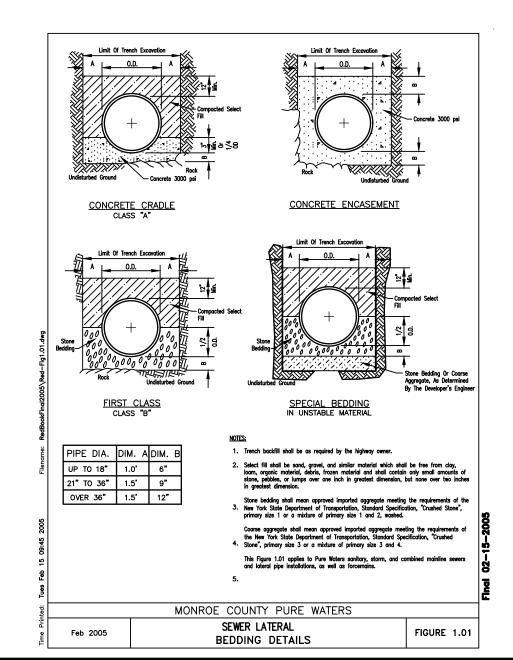
Drawing Alteration

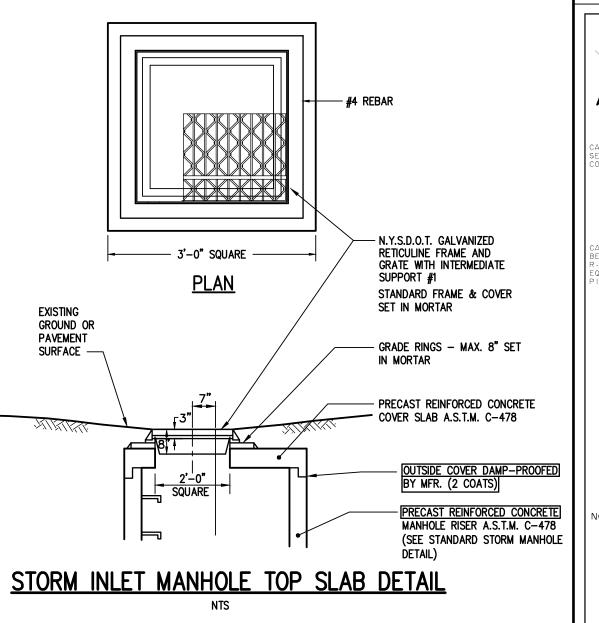
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**ELEMENT TOLERANCES** 

1.50% MAXIMUM

1.50% MAXIMUM

1.50% MAXIMUM

1.50% MAXIMUM

9.50% MAXIMUM

20% MAXIMUM

4.50% MAXIMUM

NOTES

TRANSITIONS ARE TO BE PROVIDED FOR EACH PEDESTRIAN STREET CROSSING, ORIENTED IN DIRECTION OF

THAT IS ORIENTED TO SERVE BOTH PEDESTRIAN STREET CROSSINGS.

COLORS ARE TO BE IN ACCORDANCE WITH FEDERAL STANDARD 595C.

SIDEWALK CROSS SLOPE

TURNING SPACE CROSS SLOPE

ACCESS RAMP CROSS SLOPE

BLENDED TRANSITION CROSS SLOPE

SIDE FLARE CROSS SLOPE

SIDE FLARE CROSS SLOPE

(ABUTS LAWN AREA)

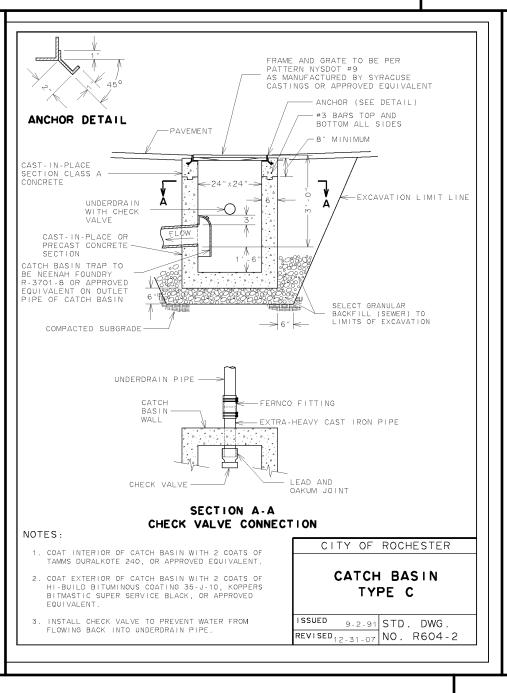
ACCESS RAMP GRADE (RUNNING SLOPI

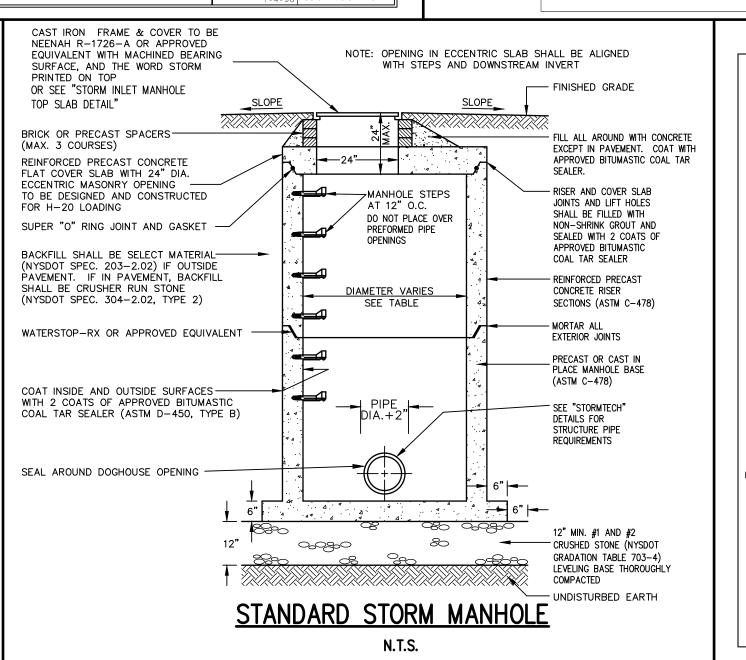
BLENDED TRANSITION GRADE

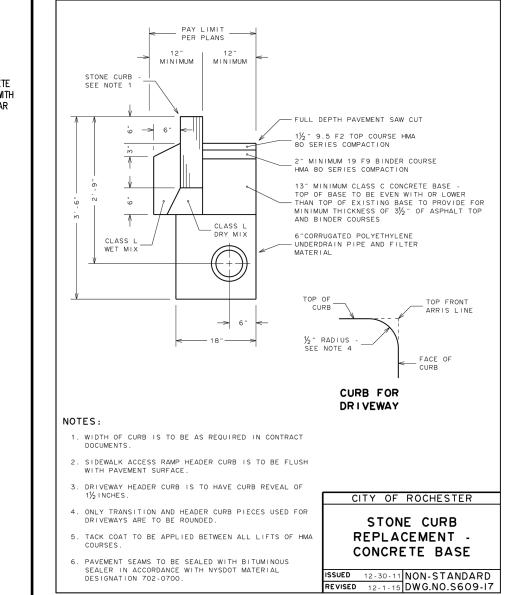
(RUNNING SLOPE)

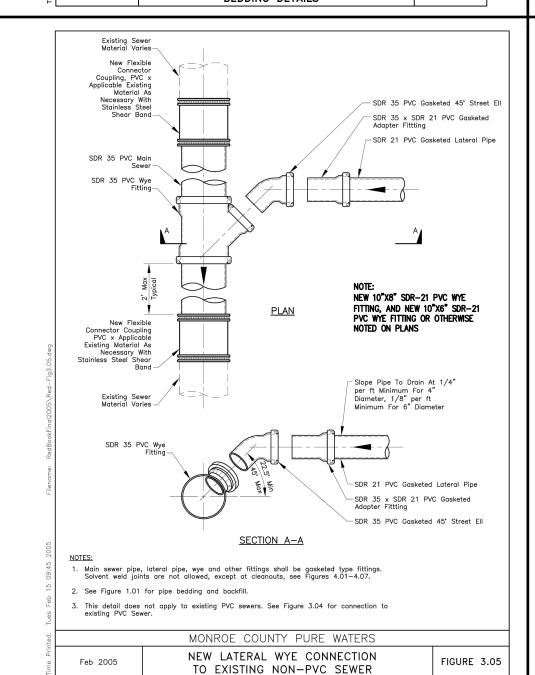
AND FOR WORK ACCEPTANCE

(ENCROACHMENT INTO PAVED AREA)

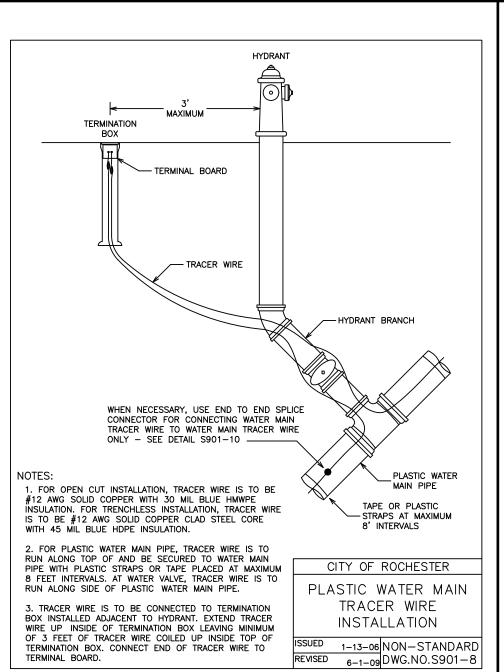


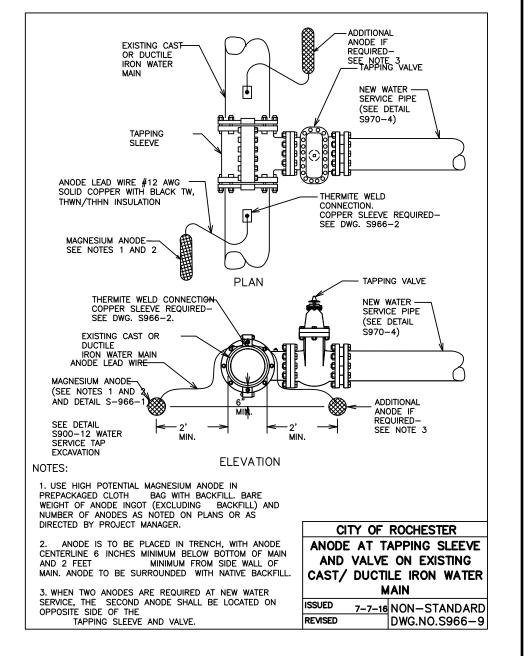


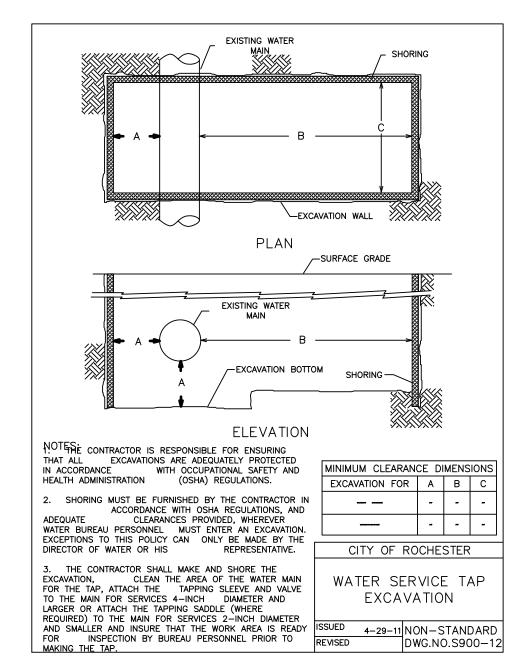


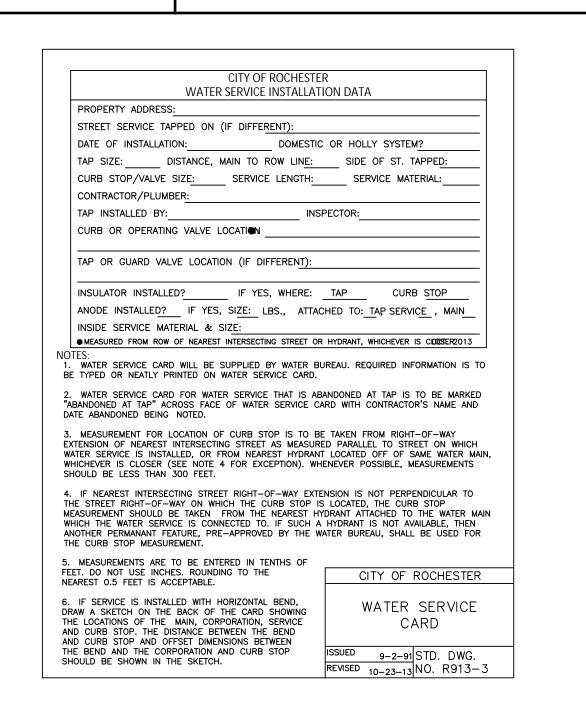


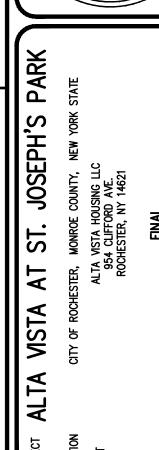
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PROJECT MANAGER

PROJECT ENGINEER

VJ. SCHLAGETER

DATE ISSUED

DECEMBER 07, 202

JL. SWEDROCK

RR. SPURR

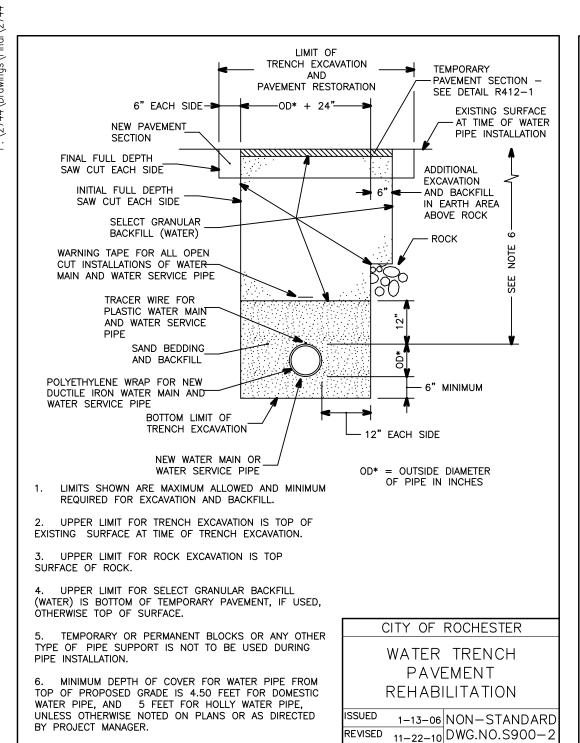
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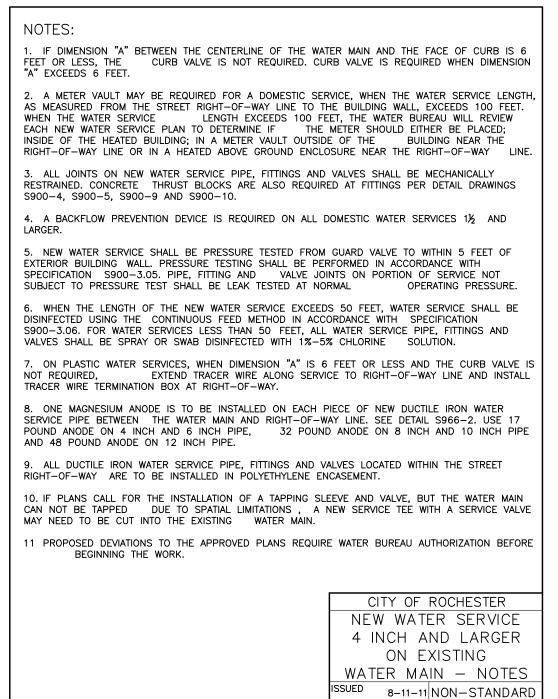
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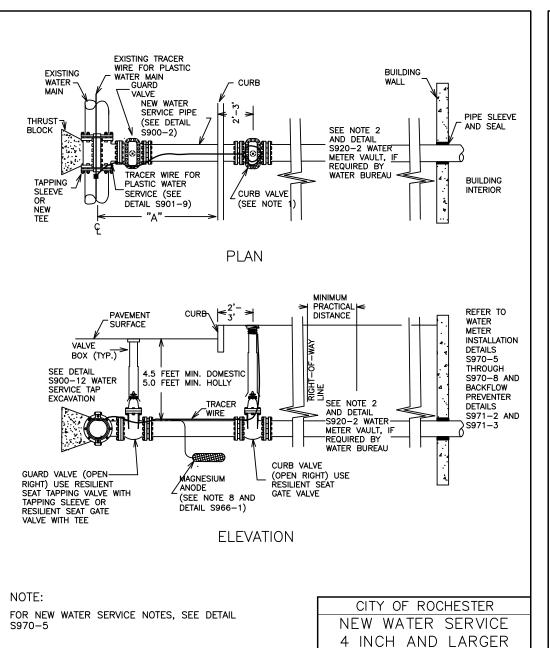
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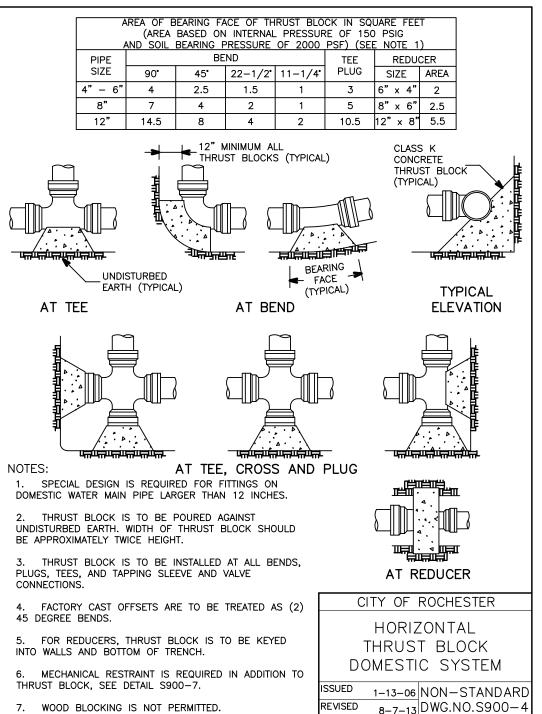
(SHEET 2 of 5)

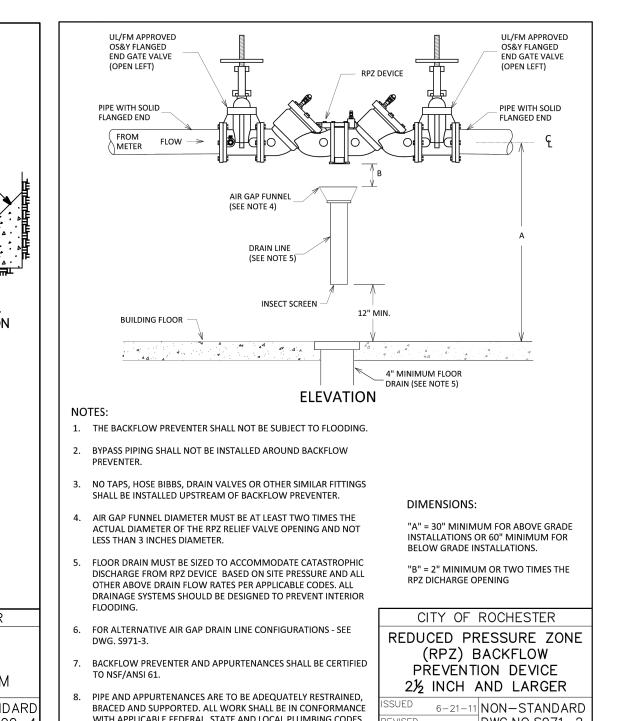
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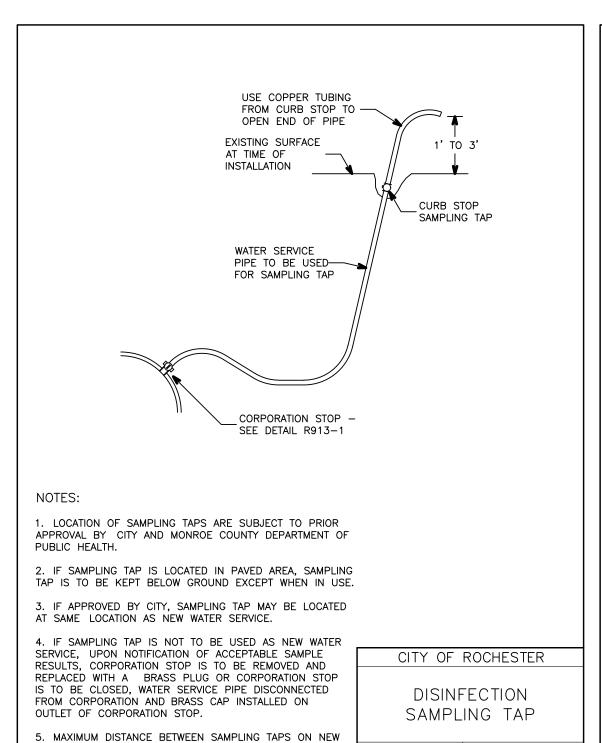








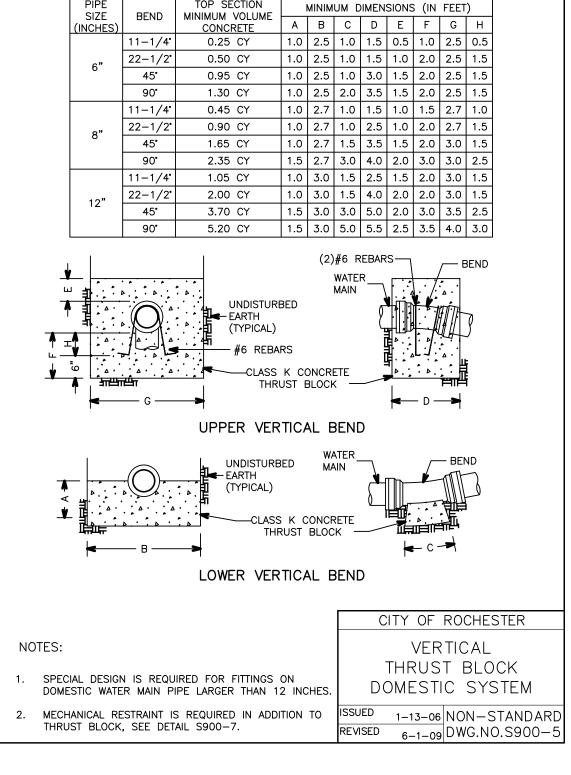




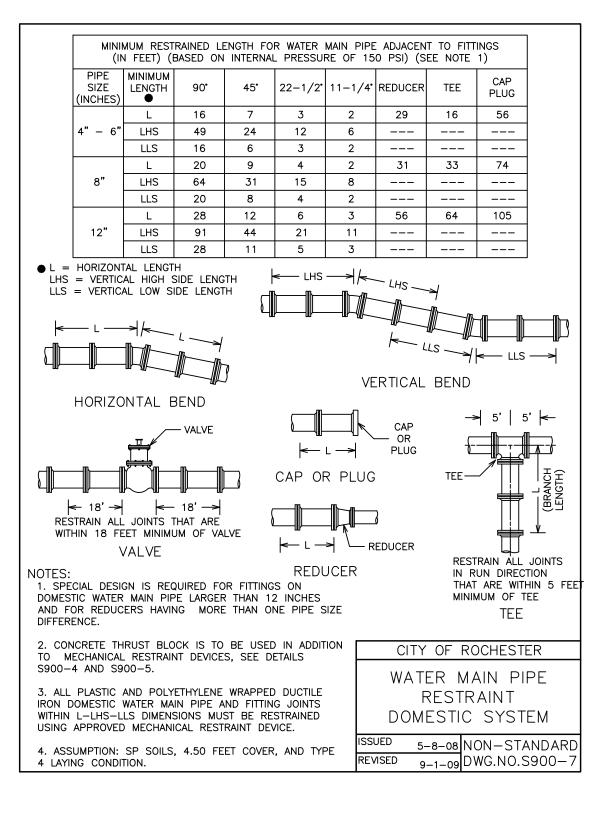
SSUED 1-13-06 NON-STANDARD

REVISED 2-19-15 DWG.NO.S900-6

WATER MAIN INSTALLATION IS 1,000 FEET.



□DWG.NO.S970-5

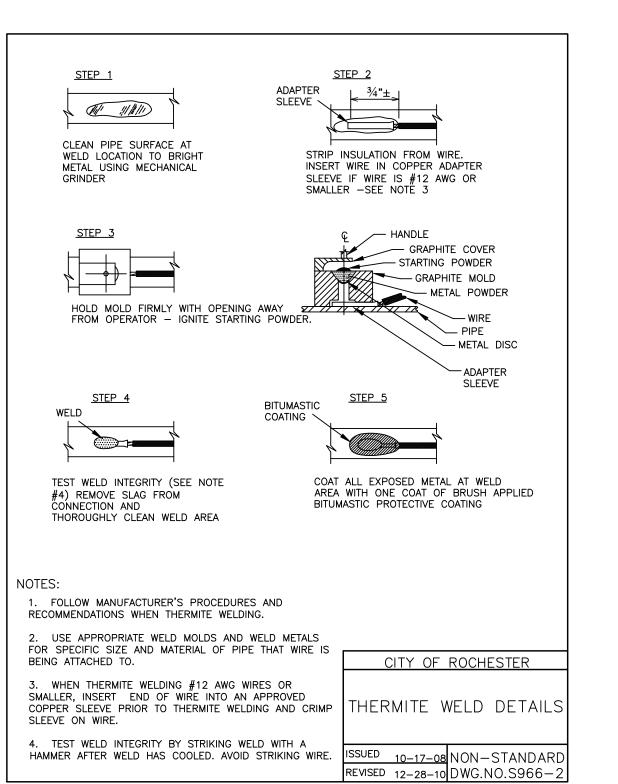


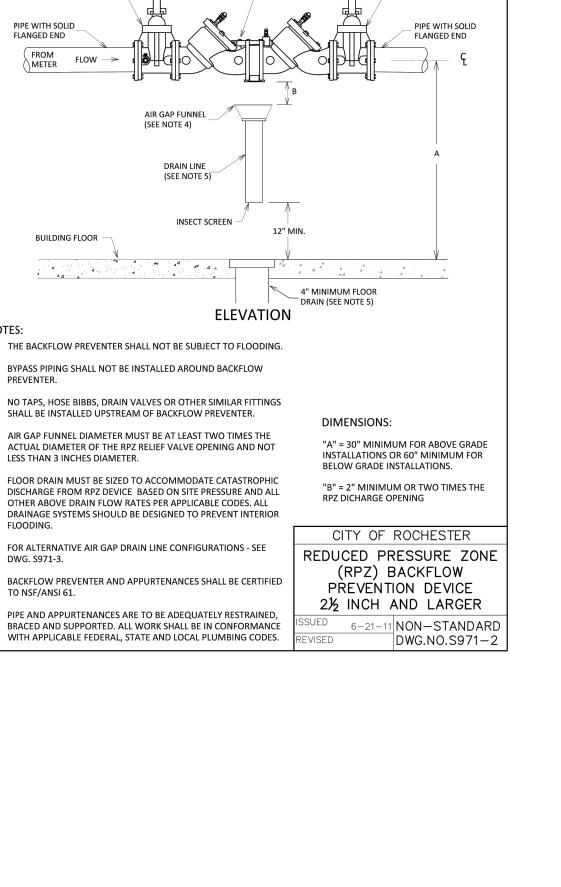
ON EXISTING

WATER MAIN

8-8-11 NON-STANDARD

DWG.NO.S970-4





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Drawing Alteration The following is an excerpt from the New York State Education Law Article 145 Section 7209 and applies to this "It is a violation of this law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor to alter any item in any way. If an item bearing th seal of an engineer or land surveyor is altered, the altering engineer or land

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by his signature and the date of such

alteration, and a specific description of the alteration."

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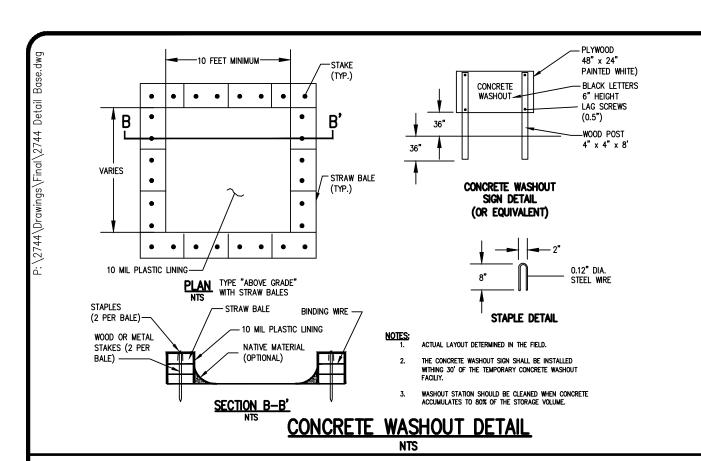
> PROJECT MANAGER JL. SWEDROCK PROJECT ENGINEER RR. SPURR

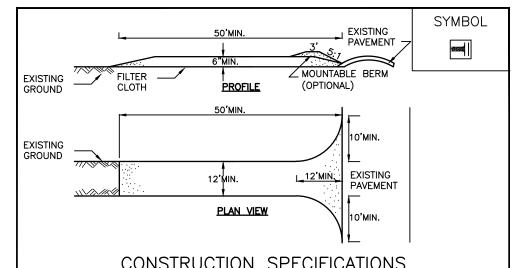
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VJ. SCHLAGETER DATE ISSUED SCALE DECEMBER 07, 202 PROJECT NO.

DRAWING NO.

(SHEET 3 of 5)





# CONSTRUCTION SPECIFICATIONS

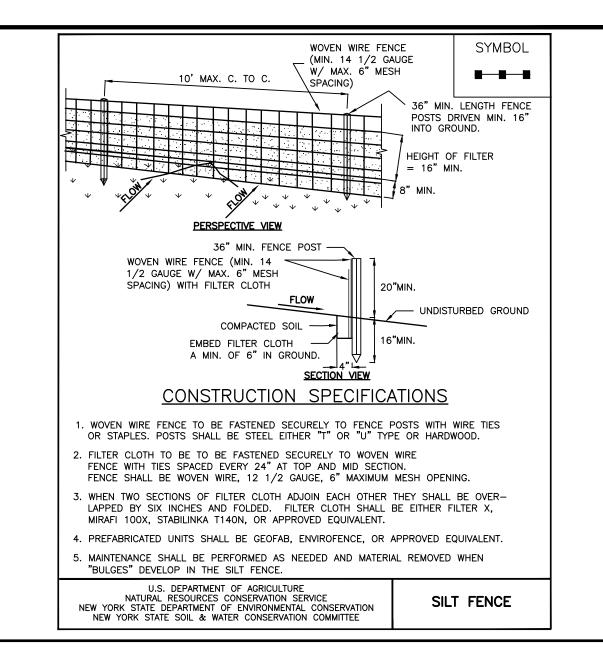
- 1. STONE SIZE USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. 2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES. 4. WIDTH — TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY—FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- 6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CON— STRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 7. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS—OF—WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS—OF—WAY MUST BE REMOVED IMMEDIATELY.
- 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH

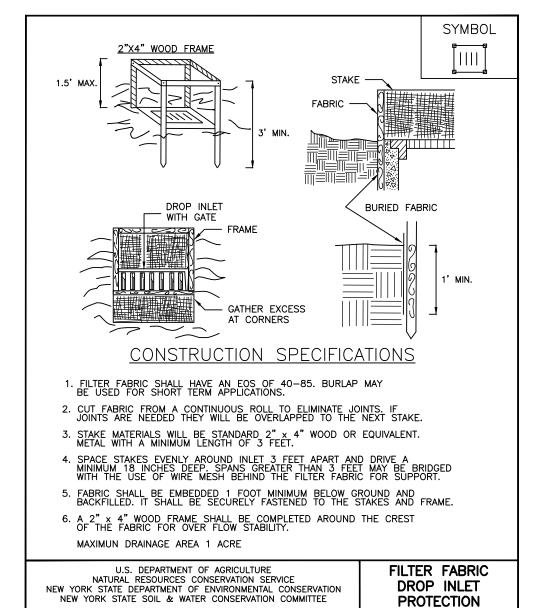
U.S. DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

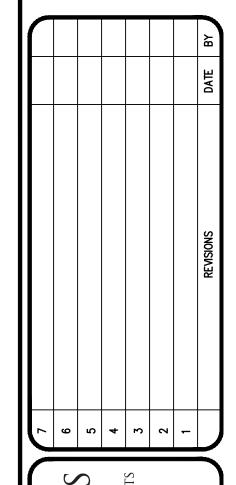
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE STABILIZED CONSTRUCTION **ENTRANCE** 





Drawing Alteration The following is an excerpt from the New York State Education Law Article 145 Section 7209 and applies to this

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PROJECT MANAGER JL. SWEDROCK PROJECT ENGINEER RR. SPURR DRAWN BY VJ. SCHLAGETER

N.T.S. DECEMBER 07, 202 PROJECT NO.

DATE ISSUED

DRAWING NO.

SCALE

(SHEET 4 of 5)

NOT APPROVED This plan has not received final

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approval of all reviewing agencies. This plan is subject to revisions until all approvals are obtained and should not be used for construction





# **ALTA VISTA PROJECT**

# MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500.
- 2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- 3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- 5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- 6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUQATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
   TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING
- STACKING LUGS.

  TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3". • TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN
- SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:

  THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

  THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.

  THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- 9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY

# ROCHESTER, NY

# IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.

- 2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE". 3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:

  • STONESHOOTER LOCATED OFF THE CHAMBER BED.

  • BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.

  • BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5 JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3
- 9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- 10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN
- 11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF. NOTES FOR CONSTRUCTION EQUIPMENT
- 1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:

  NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.

  NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".

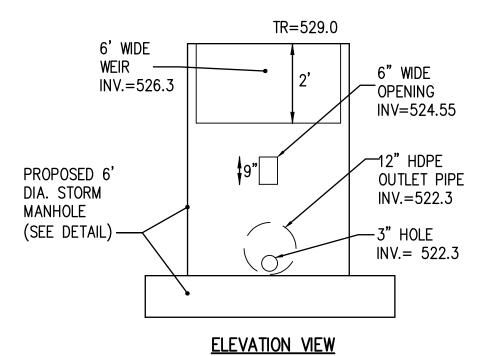
  WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE". 3 FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT

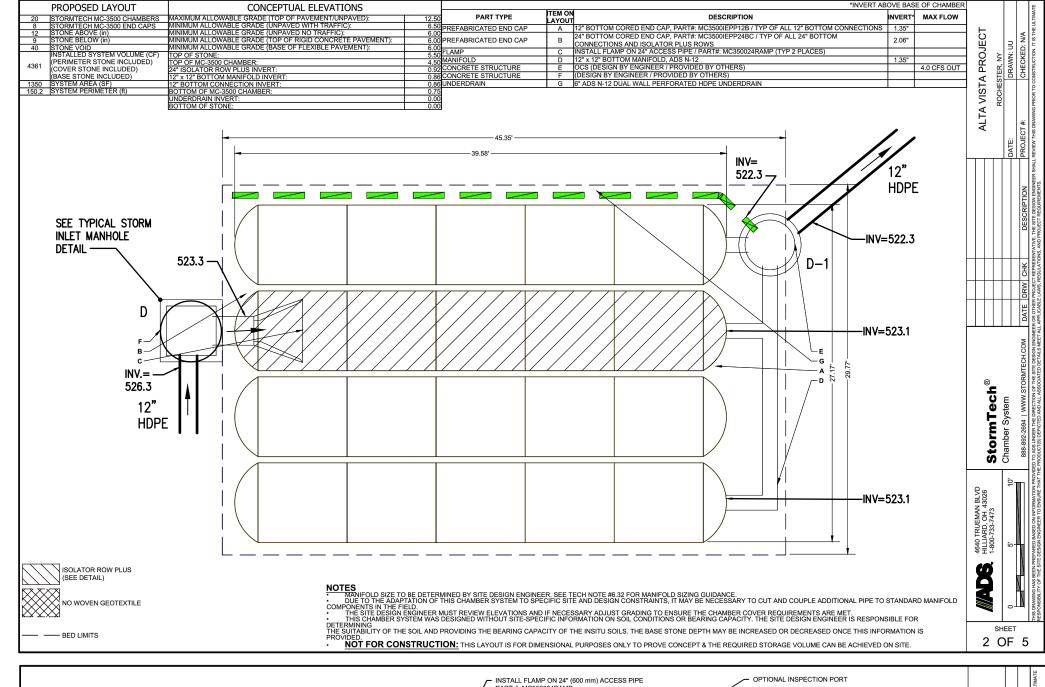
# ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS AASHTO MATERIA COMPACTION / DENSITY REQUIREMENT MATERIAL LOCATION DESCRIPTION CLASSIFICATIONS FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS. AASHTO M145<sup>1</sup> A-1, A-2-4, A-3 BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVE GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' HE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 2° (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. OR MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS AASHTO M43<sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 CLEAN, CRUSHED, ANGULAR STONE NO COMPACTION REQUIRED. **FOUNDATION STONE**: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. AASHTO M431 CLEAN, CRUSHED, ANGULAR STONE PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. PLEASE NOTE: 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE". 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR "A LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTION. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR SPECIAL PROPRIES WAS BEEN AND BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS. COMPACTION REQUIREMENTS. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION. ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS DEPTH OF STONE TO BE DETERMINED CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS. . REQUIREMENTS FOR HANDLING AND INSTALLATION: TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS. • TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3". TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

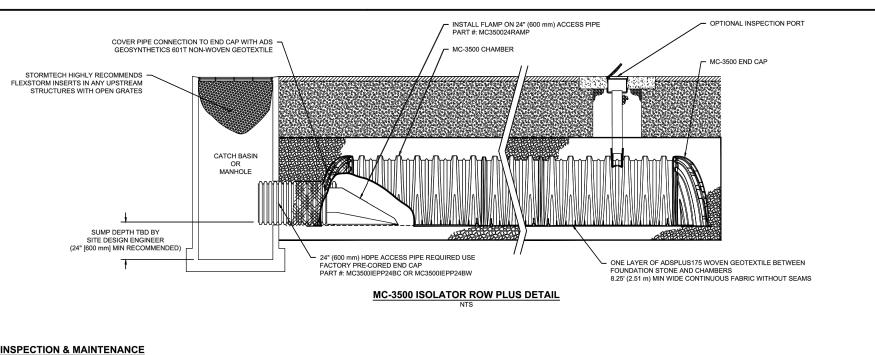
# PROPOSED UNDERGROUND STORMWATER CHAMBER SYSTEM (SWMF)

BOTTOM OF STORMTECH ELEVATION  $=\pm 521.5$ 3" ORIFICE ELEVATION = 522.3 9"HX6"W ORIFICE = 524.55 BOTTOM OF 2'HX6'W WEIR = 526.31-YR PONDING ELEVATION = 523.7210-YR PONDING ELEVATION = 525.16 100-YR PONDING ELEVATION = 526.26 SEE STORMTECH DETAILS



STORMTECH OUTLET STRUCTURE DETAIL





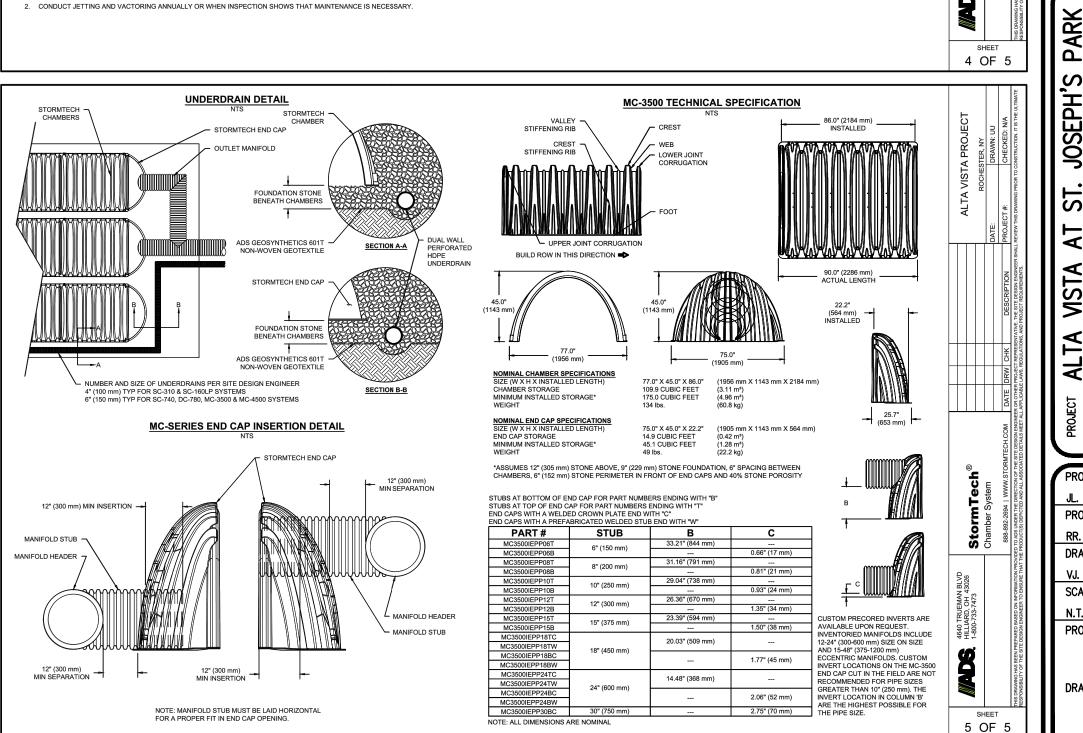
# INSPECT ISOLATOR ROW PLUS FOR SEDIMENT

- NSPECT ISOLATOR ROW PLUS FOR SEDIMENT
  A. INSPECTION PORTS (IF PRESENT)
  A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  A.5. IF SEDIMENT IS AT, OR ABOVE, 3° (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
  B. ALL ISOLATOR PLUS ROWS
  B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
  i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
  ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  B.3. IF SEDIMENT IS AT, OR ABOVE, 3° (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS A FIXED CLILVERT CLEANING NOZZI E WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRE APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN VACUUM STRUCTURE SUMP AS REQUIRED

## STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS. STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

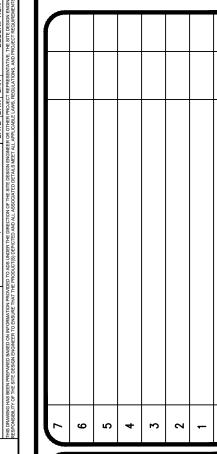
3 OF 5



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alteration, and a specific description of the alteration."



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PROJECT MANAGER JL. SWEDROCK PROJECT ENGINEER DRAWN BY VJ. SCHLAGETER DATE ISSUED SCALE

DECEMBER 07, 2021 PROJECT NO.

